

L1630450051 – St. Clair  
Morris Paints and Varnish  
ILD 096721063  
SF/HRS

US EPA RECORDS CENTER REGION 5



530997

# CERCLA

## Combined Assessment Report



**CERCLA  
COMBINED ASSESSMENT REPORT**

**for:**

**Morris Paints and Varnish  
East St. Louis, Illinois  
ILD 096721063**

**PREPARED BY:  
ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
BUREAU OF LAND  
DIVISION OF REMEDIATION MANAGEMENT  
OFFICE OF SITE EVALUATION**

**3  
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## **SECTION 1**

### **SITE BACKGROUND**

#### **1.1 INTRODUCTION**

Morris Paints and Varnish (ILD 096721063) was placed on the Comprehensive Environmental Response, Compensation and Liability Act Information System (CERCLIS) on March 9, 1990. This action was taken due to a time critical removal action by the United States Environmental Protection Agency initiated in March 1990 and completed in June 1990.

In September 2001 the Illinois EPA's Office of Site Evaluation unit was tasked by the United States Environmental Protection Agency (U. S. EPA) to conduct a CERCLA Combined Assessment (CA) investigation of the Morris Paints and Varnish site located at 1445 Brady Street (15<sup>th</sup> & Brady), East St. Louis, St. Clair County, Illinois. This investigation was conducted under the authority of the Comprehensive Environmental Response, Compensation and Liability Act of 1980, as amended by the Superfund Amendments and Reauthorization Act of 1986.

In February 2002, the Illinois EPA's Site Assessment Program prepared and submitted to the Region V offices of the U. S. Environmental Protection Agency a CA inspection work plan for the Morris Paints and Varnish facility. The sampling portion of the CA inspection was conducted on March 12 and 13, 2002. The Illinois Environmental Protection Agency sampling team collected a total of fourteen subsurface soil samples and four groundwater samples.

The IEPA performed the CERCLA Combined Assessment activities to fill information gaps that may have existed in previous CERCLA investigations and to



determine whether, or to what extent, the site poses a threat to human health and the environment.

## **1.2 SITE DESCRIPTION**

The Morris Paints and Varnish site is located in the city of East St. Louis, St. Clair County, Illinois. The property consists of approximately 3.5 acres and is situated in the industrial area with houses and low income housing projects nearby. The site is flat and bordered by railroad tracks on the northeast, 15<sup>th</sup> Street on the southeast, Brady Avenue on the southwest, and an alley on the northwest side. Onsite is the remnant of a building and the concrete foundations of buildings that were destroyed in a fire. The site is located in a mixed urban and industrial setting and is surrounded by a high chain link fence to discourage unauthorized entry and trespassing. The property is currently being used by an auto salvager who has an employee who lives in a trailer onsite.

The property is surrounded by a locked gate and high chain link fence and contains a large amount of debris and rubble both inside the property and along the outside perimeter where illegal dumping has occurred. The property is located in a depressed industrial/residential area containing a mixture of active businesses and closed and dilapidated public and private buildings. The nearest residence is located approximately 150 feet northeast of the site and a housing project is located approximately 500 feet west. A school is located approximately one-half mile west of the site. The nearest waterway is the Mississippi River located approximately two miles west of the property. Residents of the East St. Louis area are served by a municipal water supply, which obtains its water from the Mississippi River.

### **1.3 SITE HISTORY**

The site has a history of being used for the manufacturing of paint. The property was acquired by Morris Paint and Varnish Company on or about December 6, 1979 from the trustee of the estate of Morris Industries, Inc. as a result of bankruptcy proceedings. Morris industries was also involved in the manufacture of paints. The property consists of all of block five of Denverside subdivision of the Commonfields of Cahokia. and contains three different parcels. According to a local resident a hotel was located at the south end of the property until the 1960's, when it was torn down. Aerial photographs show the hotel being present in 1958 and 1966 photos but absent in a 1974 photo. The Morris Paints and Varnish site includes the property once occupied by the hotel.

The site had nine underground storage tanks with capacities of 2,000 to 6,000 gallons. Paint was mixed in two 1,000 gallon tanks and pumped into a 2,500 gallon holding tank from which it was then pumped into one and five gallons containers for packaging and sale. There were also five 1,000 gallon holding tanks which contained resins used in the paints.

The site had a large fire in 1982 that destroyed much of the facility. The damaged area is located adjacent to the northwest building where the paint mixing operations took place and destroyed a storage building to the southeast, which served as a raw material holding area.

The company was the subject of a state funded cleanup action after an IEPA inspection on November 20, 1987 indicated that approximately 2,200 drums were stored on the property and that operational conditions including spillage, open burning



and dumping had occurred. An open tank containing burning paint cans, buckets, and refuse was also noted. In January 1988 IEPA collected samples from the dock area, waste residue pile, and drums to determine the presence of hazardous wastes.

Analytical results detected toluene, ethylbenzene and xylene in some samples.

Phase 1 of the cleanup involved the staging of drums, taking inventory and sampling. It was begun on April 25, 1988 and was completed by May 10, 1988. Phase 2 involved the disposal of 1903 drums and was begun on May 15, 1989 and completed on May 30, 1989. Follow up inspections revealed areas of the property containing cans, spills and materials on the ground. The East St. Louis Fire Department reported the site to the IEPA on March 9, 1990 after a fire partially destroyed the building containing paint products. IEPA notified USEPA, who began a removal action at the site on March 16, 1990 in which a number of activities were completed. These included repairing fencing around the property, dismantling the fire damaged warehouse building, removing nine underground solvent storage tanks, removing fire debris and spilled paint/solvent liquids, paint solids, wastewater, soil, emptied tanks, drums, cans, and steel scrap.

Materials transported offsite included approximately 8,500 gallons of flammable liquids which were blended as fuels, 1,300 gallons of wastewater which were treated at a local sewage treatment plant, 240 cubic yards of hazardous wastes which were land disposed at a RCRA landfill, and 240 cubic yards of crushed drums were land disposed at a special waste landfill. Approximately 510 cubic yards of non-hazardous debris were land disposed at a local sanitary landfill. USEPA completed the removal activities on June 6, 1990.

The company was permanently closed on February 5, 1990 due to disposal of hazardous waste onsite without a Resource Conservation and Recovery (RCRA) permit. The property was later deeded to St. Clair county in 1990 due to nonpayment of taxes. The property was purchased by the current owner for back taxes in May 1999. The current owner stated that he is considering selling the property to the present occupant, who uses it to store and salvage autos and other equipment.

The removal actions performed focused on the removal of large items such as drums and tanks that at the time presented an immediate threat to public health and the environment. This inspection will address the potential residual soil and groundwater contamination that may remain. The property is located in an economically depressed area and contaminated soil onsite could expose trespassers to health hazards.

#### **1.4 REGULATORY STATUS**

The facility is closed and the remaining building is empty. The property is currently being used for auto salvaging and is not regulated under RCRA.

The property has not had any operations that were subject to the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), Atomic Energy Act (AEA) or Uranium Mill Tailings Radiation Control Act (UMTRCA).

## **SECTION 2**

### **COMBINED ASSESSMENT ACTIVITIES**

#### **2.1 RECONNAISSANCE ACTIVITIES**

The initial site reconnaissance visit was conducted by the Office of Site Evaluation Site Assessment unit of the Illinois Environmental Protection Agency on November 9, 2001 but access to the property was not gained since the property ownership was uncertain. A later check at the St. Clair county tax office listed the current owner. The owner was not listed in local phone books and was eventually located when an employee of the IEPA's Collinsville office drove by and talked to a man onsite. The man was not the owner but gave the phone number of the owner. Arrangements were made with the owner to meet him onsite on February 20, 2002 to determine potential sampling locations at the site. During the recon the author met with the owner and a walk through of the property was conducted.

The property is located in a depressed area consisting of a mixture of private and public housing units and old industrial buildings. The property is bounded by railroad tracks on the northeast, 15<sup>th</sup> Street on the southeast, Brady Avenue on the southwest and an alley on the northwest. The property is flat and sparsely vegetated with scattered piles of rubble consisting of dirt, brick, concrete and wood scraps. The site has one remaining building at the northwest portion of the property and a concrete foundation and slab that is approximately four feet above ground level and extends along the northeastern side of the site. The slab originally was under roof but the buildings were destroyed and removed after earlier fires. The perimeter of the property outside the fence contains piles of debris and junk that were illegally dumped. The



current occupant uses the property for auto salvaging and stated that he is considering buying the property. There is an old house trailer onsite and is used by a worker who is employed by the auto salvager. The entire property is surrounded by a high chain link fence and a locked gate. Trespassers could enter the property through holes in the fence.

During a drive around the neighborhood it was noted that the nearest residence is located approximately 150 feet northwest of the site. Drinking water is obtained from surface water intakes in the Mississippi River located approximately two miles west. During a later J.U.L.I.E. meet representatives from the utility companies stated they were not aware of any groundwater wells or usage in the area.

## **2.2 SAMPLING ACTIVITIES**

Sampling activities were conducted onsite March 12 and 13, 2002 when IEPA personnel collected thirteen onsite and one background soil samples, and four onsite groundwater samples. Samples were collected with hand tools and the Geoprobe. All samples were analyzed for the Target Compound List (TCL) in Appendix C. Soil and groundwater organic samples were analyzed by Clayton Environmental Consultants, Inc., and soil and groundwater inorganics were analyzed by Sentinel, Inc. All laboratories were under contract with USEPA Region 5. All laboratory results were subsequently validated by USEPA Region 5.

Sample locations are shown in figures 4 and 5 and described in Tables 1 and 2. Key sample analytical results from the sampling event are shown in Tables 3, 4 and 5. The analytical results for the soil and water samples are compared to the Illinois Environmental Protection Agency's Tiered Approach to Corrective Action Objectives

(TACO) and to Removal action Levels (RAL's).

### **2.3 KEY SAMPLES**

Key samples are samples in which contaminants were detected at concentrations at least three times background levels or had concentrations of potential health concerns. Analytes were found in onsite soil and groundwater samples at levels that exceeded these health-based benchmarks. These included volatile, semivolatile, pesticide, tentatively identified compounds and inorganic substances.



## **SECTION 3**

### **SITE SOURCES**

#### **3.1 CONTAMINATED SOIL**

During the 2002 CERCLA Combined Assessment inspection a total of thirteen soil and four groundwater samples were collected on the Morris Paints and Varnish property. Analytical results from these samples document the presence of a number of analytes at concentrations which meet the CERCLA criteria for observed contamination. The analytical results from the soil samples collected onsite showed that a number of volatile, semivolatile, pesticide, tentatively identified compounds and inorganic substances that are at levels greater than three times background, exceeded Removal Action Levels or exceeded TACO Corrective Action Objectives. Groundwater samples collected onsite also contained a number of inorganic substances that exceeded TACO Tier 1 groundwater benchmarks or Maximum Contaminant Levels (MCL's). The soil contamination was found at various locations throughout the site and the area is estimated to be approximately two acres.

Information obtained throughout this CERCLA investigation has identified contaminated soil as the primary source type at the Morris Paints and Varnish site. Given the limited nature of the Combined Assessment, and consequentially, the inability of this investigation to fully characterize the site, the possibility exists that future remedial investigative activity may provide additional information that will lead to a more comprehensive understanding of this source or the identification of additional areas of concern.

## SECTION 4

### MIGRATION PATHWAYS

#### 4.1 GROUNDWATER PATHWAY

Groundwater is not used in the area for drinking. The nearest wells are industrial process wells located approximately one and a half miles north. Groundwater was obtained onsite during the CA inspection at a depths of approximately 18 to 22 feet with the Geoprobe.

The property is located in the alluvial valley of the Mississippi River. The original area was low and fill material has been used over the years to elevate the land to reduce the effects of flooding. During the CA inspection borings from the Geoprobe indicate that fill material is present at various depths and at one location gravel, black sand and cinders were present up to nine feet below ground surface. The surficial geology of the area consists of plastic clay grading to silty clays, clayey silts. Silty fine sands and gravels overlying bedrock. Bedrock consists of Mississippian and Pennsylvanian limestone and dolomite with smaller amounts of sandstone and shale.

As mentioned previously the nearest well is an industrial process well located approximately one and a half mile north of the site. No known public wells are located within four miles. The following table, obtained from USGS topographic quadrangle and city maps, lists the estimated population using groundwater within a four-mile radius:

#### Estimated Groundwater Target Population

On a source	0
0 to 1/4 mile	0

¼ to 1/2 mile	0
1/4 to 1 mile	0
1 to 2 miles	100
2 to 3 miles	100
3 to 4 miles	0

Analytical results from onsite groundwater samples collected during the inspection indicate that there are contaminants present. These include several inorganic substances at levels above health based benchmarks..

#### **4.2 SURFACE WATER PATHWAY**

No surface water samples were collected during the March 12 and 13, 2002 CERCLA inspection. The property is flat and no direct surface water pathway could be determined. The onsite surface consists of sand and fill material and precipitation would tend to soak into the ground rather than run off. Surface water is used for drinking by the city of East St. Louis and surrounding communities. The nearest surface water intake is located in the Mississippi River approximately two and a quarter miles northwest of the site. According to the Flood Insurance Rate Maps the site is located in Zone C (area of minimal flooding).

#### **4.3 AIR PATHWAY**

Air monitoring with a TVA (Toxic Vapor Analyzer) was conducted during the CA inspection but did not indicate a release to the breathing zone. Much of the property is unvegetated and there is a potential for windborne contamination. The property is fenced on all sides and has a locked gate but is located in a depressed



populated area and is subject to trespassers who could enter thru holes in or under the fence. Private residences are located approximately 150 feet northeast of the facility and the site is located in a mixed residential and commercial area. The property is presently being used for auto salvaging and the owner and one worker were observed on the property during the inspection. The nearest school is located approximately one half mile west and there are approximately 111,275 people who live within a 4-mile radius of the site. The estimated population potential for release is:

#### Estimated Air Target Population

On a source	3
0 to ¼ mile	500
¼ to ½ mile	3,296
½ to 1 mile	8,273
1 to 2 miles	18,433
2 to 3 miles	30,770
3 to 4 miles	50,000

#### **4.4 SOIL EXPOSURE PATHWAY**

Soil samples collected during the CA inspection document areas of observed contamination by contaminants that are attributable to the site. The property is completely fenced but trespassers could gain access thru holes or under the fence. The property has a locked gate and a man sleeps in an old onsite trailer. Private residences are located approximately 150 feet northeast of the facility and represents the location of the nearest non-worker. The nearest school is located approximately one half mile

west. A review of USGS topographic maps, city maps and U.S. Census data indicate that there are approximately 12,072 people that live within a one-mile radius of the site. The estimated population within one mile of the site is:

On a source	3
0 to ¼ mile	500
¼ to ½ mile	3,296
½ to 1 mile	8,273

A review by the Illinois Department of Natural Resources did not indicate any terrestrial sensitive environments near the Morris Paints and Varnish. Wetland inventory maps indicate that there are approximately 8 acres of wetlands located north within a half mile of the site.



## **SECTION 5**

### **ADDITIONAL RISK BASED OBJECTIVES**

This section discusses additional screening objectives used to evaluate the Morris Paints and varnish site. These objectives have not been used to assess the site for Hazard Ranking System (HRS) purposes.

#### **5.1 TIERED APPROACH TO CORRECTIVE ACTION OBJECTIVES (TACO)**

The Illinois EPA's TACO Guidance Document (proposed rules under 35 IL Adm. Code Part 742), can be used to develop site-specific remediation objectives. This document discusses key elements required to develop risk-based remediation objectives, how background values may be used, and provides guidance through three tiers of the risk-based approach. The Illinois EPA uses this guidance, and the groundwater standards established in 36 IL Adm. Code 620, to determine soil and groundwater remediation objectives.

The soil contaminants from the Morris Paints and Varnish site were compared to the soil remediation objectives established for industrial/commercial properties, with the inhalation, ingestion and migration to groundwater routes each evaluated. Tier 1 consists of "look-up" tables, which considers limited site-specific information and are based on simple numeric models. Several samples exceeded these benchmarks for organic and inorganic substances.

## **SECTION 6**

### **6.1 BIBLIOGRAPHY**

Illinois Environmental Protection Agency file " Notice Pursuant to Section 4(q) of the Environmental Protection Agency Act", March 15, 1986 regarding Morris Paints and Varnish.

Illinois Environmental Protection Agency file, "On-scene Coordinator Report for Morris Paints and Varnish", received March 22, 1993.

Illinois Environmental Protection Agency files. Memorandums concerning Morris Paints and Varnish, ILD 096721063.

Illinois Environmental Protection Agency, Division of Public Water Supplies. Public well topographic maps for the East St. Louis, IL area.

Illinois Department of Natural Resources. Endangered Species Consultation Program, Agency Action Report for Morris Paints & Varnish, 7/3/02.

USGS, 1982, Granite City, IL. Quadrangle, 7.5 minute series.

USGS, 1974, Monks Mound, IL. Quadrangle, 7.5 minute series.

USGS, 1974, Cahokia, ILL.-MO. Quadrangle, 7.5 minute series.

USGS, 1982, French Village, IL. Quadrangle, 7.5 minute series.



FIGURE 1

MORRIS PAINTS & VARNISH  
STATE OF ILLINOIS LOCATION MAP



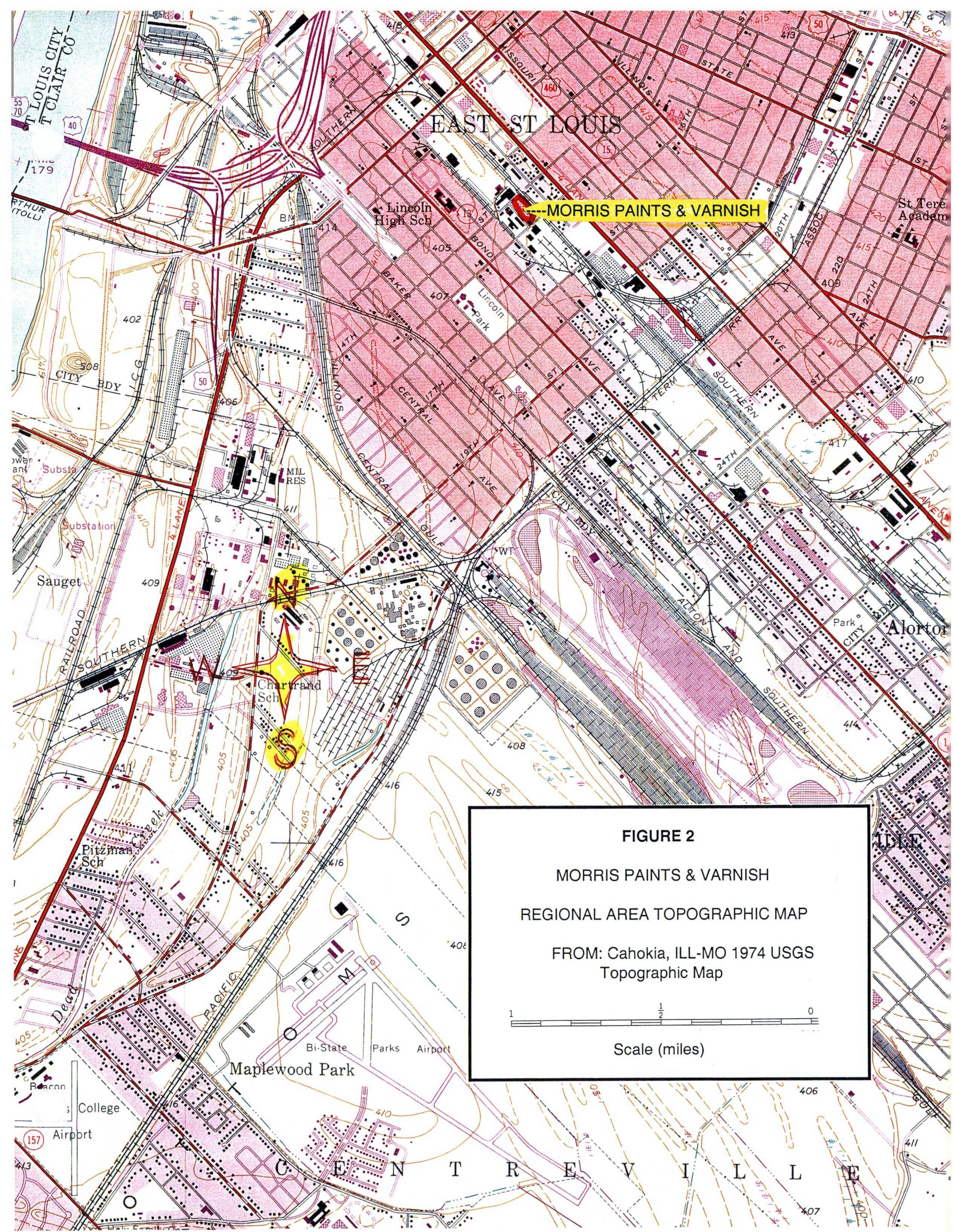
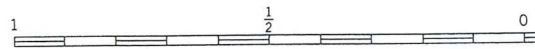


FIGURE 2

MORRIS PAINTS & VARNISH

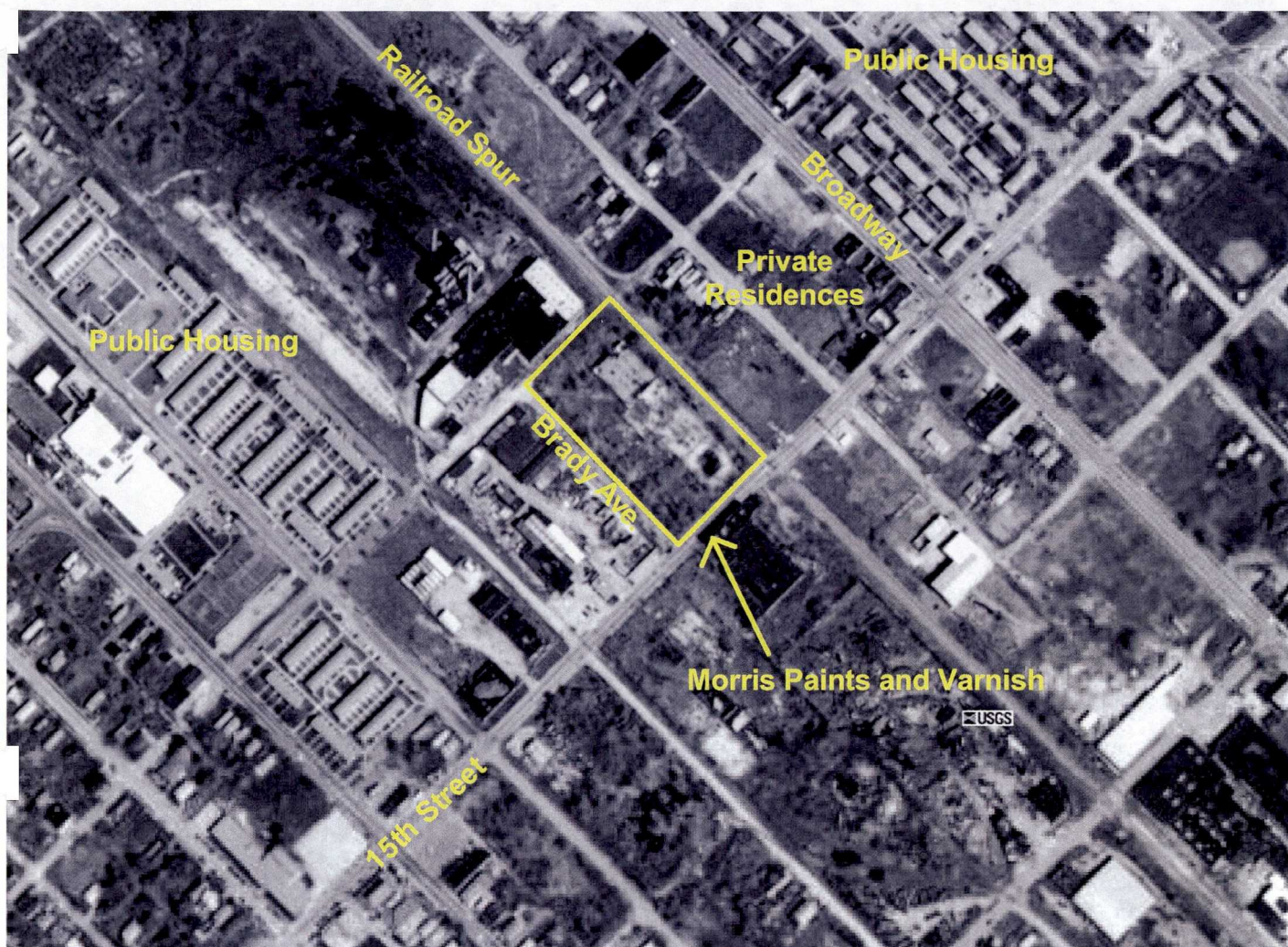
REGIONAL AREA TOPOGRAPHIC MAP

FROM: Cahokia, ILL-MO 1974 USGS  
Topographic Map



Scale (miles)





300 0 300 600 Feet

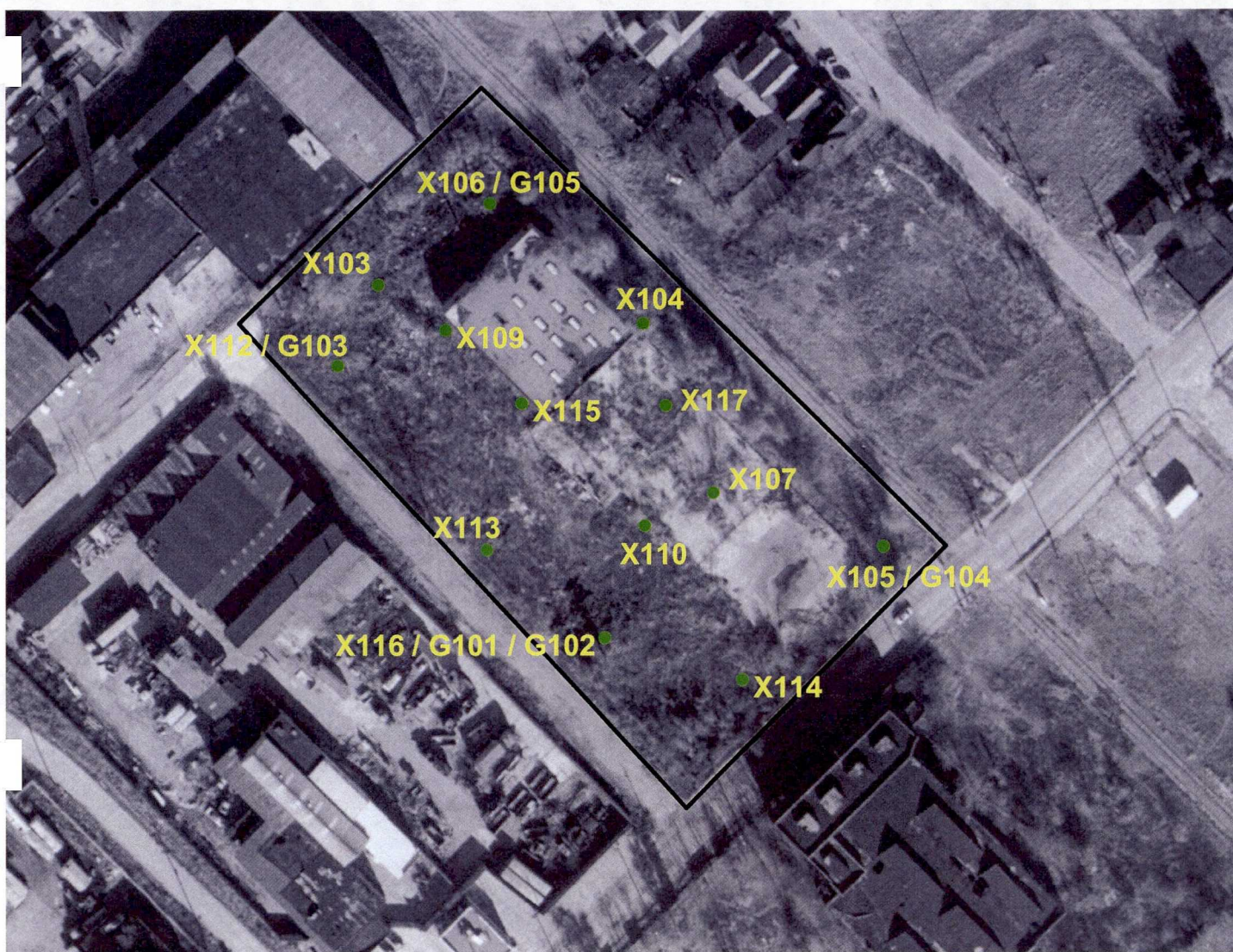
**Morris Paints and Varnish**

**FIGURE 3**  
**Aerial Photograph**

From: USGS Aerial Photograph taken on April 2, 1998







100 0 100 200 Feet

**Morris Paints and Varnish**

**FIGURE 4**

**Sampling Location Map**

- Sample Location
- Site Boundary



From: Illinois Department of Transportation Aerial Photograph taken on December 1, 1999.







TABLE 1  
Soil Sample Description

<u>Sample Date Time</u>	<u>Depth</u>	<u>Location</u>	<u>Appearance</u>
X101 X102 3/13/02 11:00 AM	1" to 4"	Background and duplicate soil sample collected at Lincoln Park, located approximately 1/4 mile south of the Morris Paints and Varnish site.	0 to 4" - Black loam.
X103 3/12/02 14:20	VOA - 9' BNA/Pest/PCB - 9' Inorg - 9'	Collected at the west side of the property.	0 to 1' - Dark brown loam fill with cinders & gravel. 1' to 2' - Fine olive sand. 2' to 3.5' - Black cinders, gravel, olive colored sand. 3.5' to 4' - fine white gravel and black cinders. 4' to 6' - No recovery. 6' to 7' - Fine dark brown sand. 7' to 8' - Fine dark brown & brown sand. 8' to 9' - Gravel and black sand with cinders. 9' to 10' - Gravel, cinders, fine dark brown sand. 10' to 11.5' - Fine olive brown sand with small amount of gravel. 11.5' to 13' - Brown grey clay. 13' to 14' - Brown grey clay with sand. 14' to 16' Sandy brown clay, fine sand.
X104 3/12/02 13:20	VOA - 6" BNA/Pest/PCB - 3" - 6" Inorg - 3" - 6"	Collected at the north side of the property next to the north side of the building foundation.	0 to 2' - Brown sand & fill material.
X105 3/13/02 16:00	VOA - 12" BNA/Pest-PCB - 6" to 12" Inorg - 0 to 4"	Collected neat the northeast corner of the property. Groundwater sample G104 also collected at this location.	0 to 6" - Black loam. some gravel. 6" to 3' - Black cinders, sandy black loam & gravel. 3' to 4' - Coal fines. 4' to 6' - Clayey brown sand. 6' to 7' - Sandy brown clay. 7' to 12' - Fine brown sand.
X106 3/12/02 9:55	VOA - 7-8' BNA/Pest/PCB - 7-8' Inorg - 7-8'	Collected at the northwest area of the property. Groundwater sample G105 also collected at this location.	0 to 1.0' - Grey silty loam.. 1.0' to 2.5' - Brown silty clay, with sand & gravel. 2.5' to 4.5' - Dark brown to black cindery clay fill material, moist at bottom. 4.5' to 7.0' - cindery black glass-like material. 7.0' to 11' - Grey/white paint waste. 11.0' to 12' - Fine grey sand. 12' to 26' - Fine grey sand; water at 22.5'
X107 3/13/02 10:20 AM	VOA - 1' BNA/Pest/PCB - 1' Inorg. - 2.5'	Collected on concrete platform at site of former raw stock storage area. Concrete had breaks that allowed sampling.	0 to 1' - Brown clay & loam. 1' to 3' - Brown clayey loam.
X109 3/12/02 17:00	2" to 12"	Collected near the southwest side of the building, next to the building foundation.	0 to 2' - Black sandy loam.



TABLE 1  
Soil Sample Description

<u>X110</u> 3/13/02 17:00	VOA - 2' BNA/Pest-PCB - 2' Inorg.- Surface	Collected on the south side of concrete platform at site of demolished paint manufacturing building. Collected next to foundation.	0 to 4" - Black sandy loam. 4" to 18" - Red-brown sand. 18" to 2' - Black cinder material.
<u>X112</u> 3/12/02 16:30	2" to 12"	Collected at the southwest area of the property. Groundwater sample G103 also collected at this location.	0 to 6" - Dark brown loam with cinders. 6" to 2' - Gravel & cinders. 2' to 4' - Dark brown fine sand, gravel. 4' to 6' - Dark brown fine sand. 6' to 7' - Grey fine sand. 7' to 7.5' - Gravel & coarse brown sand. 7.5' to 8' - Grey-black fine sand. 8' to 9' - Fine black votes. 9' to 10' - Grey-dark brown clay, stiff. 10' to 11' - Sandy brown clay. 11' to 16' - Clayey brown sand. 16' to 23' - Fine brown sand. 23' to 24' - Fine-coarse brown sand.
<u>X113</u> 3/13/02 13:30	VOA - 1' BNA/Pest-PCB - 1' INORG. - 0 to 1'	Collected near the fence on the south-central area of the property.	0 to 1' - Black loam, cinders & sand. 1' to 2' - Fine red-brown slag. 2' to 5' - Fine dark brown sand, cinders. 5' to 6' - Fine brown sand.
<u>X114</u> 3/12/02 14:45	Voa - 7' BNA/Pest-PCB - 7' Inorg. - Surface	Collected at the eastern area of the property, near site of former hotel.	0 to 3" - Loam, ciders, fine sand. 3" to 8" - White rock. 8" to 12" - Sandy loam, slag. 12" to 2' - Black cinders, loam, sand. 2' to 3' - Fine olive sand. 3' to 3.5' - Brown clayey sand. 3.5' to 8' - Brown fine sand. 8' to 12' - Tan fine sand.
<u>X115</u> 3/12/02 17:30	VOA - 7" BNA/Pest-PCB - 7" Inorg. - 3"	Collected at the southeast end of building, next to building foundation.	0 to 2' - Black sandy loam fill.
<u>X116</u> 3/13/02 12:00	VOA - 3" BNA/Pest-PCB - 2' - 4' Inorg. - 4' to 5'	Collected at the southeast area of property. Groundwater sample G101 and duplicate G102 also collected at this location.	0 to 1' - Brown sand, white rock. 1' to 15" - Black loam with some gravel. 15" to 2' - White rock. 2' to 7.5' - Brown clay & fine sand mix. 7.5' to 8' - Brown sand with thin clay layer. 8' to 26' - Brown fine sand.
<u>X117</u> 3/13/02 9:00	VOA - 12" BNA/Pest-PCB - 12" Inorg. - 1 to 2"	Collected on concrete pad where paint factory once stood. Collected with hand auger.	0 to 1' - Fine slag, loamy soil. 1' to 5' - Fine slag & cinders.

TABLE 2  
Groundwater Sample Description

<u>Sample Date Time</u>	<u>Depth</u>	<u>Location</u>	<u>Appearance</u>
G101 G102 3/13/02 11:00	26'	Background and duplicate sample collected at location X116. Water encountered at 22', well screened from 22' to 26'.	Clear.
G103 3/12/02 16:45	26'	Collected at the same location as soil sample X112 using the Geoprobe. Well screened to 22 to 26 feet. Hit water at 18'.	Slightly murky.
G104 3/13/02 15:15	26'	Collected at same location as X105. Screened from 22' to 26'.	Clear.
G105 3/12/02 12:15	26'	Collected at the same location as soil sample X106 using the Geoprobe. Well screened from 22 to 26 feet. Water encountered at 22.5 feet.	Cloudy.



Site Name: Morris Paints & Varnish  
ILD Number: 096721063

TABLE 3  
KEY SAMPLES  
(Soil)

SAMPLING POINT Date Sampled :	X101 3/13/02 (Background)	X102 3/13/02	X103 3/12/02	X104 3/12/02	X105 3/13/02	X106 3/12/02	X107 3/13/02	X109 3/12/02	TACO CLEANUP OBJECTIVES	RAL's		
PARAMETER												
Volatile Compound												
Benzene	3	J	3	J	--	28	--	--	--	200	5,900,000	
4-Methyl-2-pentanone	--	--	--	--	--	--	--	--	--	--	--	
Toluene	4	J	5	J	--	87	--	950000 DJ	--	410,000	16,000,000	
Tetrachloroethene	--	--	--	--	--	--	--	--	--	--	--	
Ethylbenzene	1	J	2	J	5 J	32	--	1800000 D	--	7 J	200,000	78,000,000
Xylenes (total)	3	J	4	J	21	180	--	9100000 D	--	29	1,000,000	--
Isopropylbenzene	--	--	--	--	--	--	--	--	--	--	--	
1,2-Dichlorobenzene	--	--	--	--	4 J	--	--	--	--	180,000	--	
	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	mg/Kg	ug/Kg	
Semivolatile Compound												
Phenol	--	--	--	--	--	28 J	--	--	39 J	1,000,000	470,000,000	
Acetophenone	55	J	--	--	--	--	--	--	--	--	--	
4-Methylphenol	--	--	--	--	--	--	--	--	140 J	--	--	
Nitrobenzene	--	--	--	--	--	--	--	--	--	1,000	390,000	
2,4-Dimethylphenol	--	--	--	--	--	--	--	--	57 J	41,000	16,000,000	
Naphthalene	--	--	71 J	110 J	640	45000	150 J	840	82,000	500,000		
2-Methylnaphthalene	--	--	100 J	--	2000	10000 J	100 J	290 J	--	--		
1,1'-Biphenyl	--	--	--	--	150 J	1100 J	36 J	60 J	--	--		
Acenaphthylene	--	--	--	57 J	510	--	150 J	150 J	--	--		
Acenaphthene	--	--	--	72 J	230 J	--	320 J	120 J	120,000	1,000,000		
Dibenzofuran	--	--	38 J	69 J	740	--	270 J	330 J	--	--		
Fluorene	--	--	--	83 J	210 J	--	340 J	110 J	82,000	1,000,000		
4-Nitroaniline	--	--	--	74 J	--	--	--	--	--	--		
Hexachlorobenzene	--	--	--	42 J	--	--	--	--	--	--		
Pentachlorophenol	--	--	--	70 J	--	2700 J	--	--	24	100,000		
Phenanthrene	82	J	73 J	230	1300	6500 E	--	10000 E	3500 E	--	1,000,000	
Anthracene	--	--	30 J	200 J	620	--	1100	500	610,000	1,000,000		
Carbazole	--	--	30 J	160 J	290 J	--	660	200 J	290	--		
Di-n-butylphthalate	66	J	--	--	260 J	--	180000	--	70 J	200,000	--	
Fluoranthene	130	J	100 J	580	1700	3600 E	--	11000 E	3700 E	82,000	1,000,000	
Pyrene	130	J	99 J	510	1200	2900	--	8600 E	2500	61,000	1,000,000	
Benzo(a)anthracene	71	J	52 J	410	670	1400	--	3000	1300	8	1,000,000	
Chrysene	90	J	69 J	600	810	1500	--	3400 E	1300	780	1,000,000	
bis(2-Ethylhexyl)phthalate	120	J	89 J	--	560	--	21000 J	--	--	410	12,000,000	
Benzo(b)fluoranthene	97	J	67 J	740	930	1500	--	3200	1400	8	--	
Benzo(k)fluoranthene	62	J	40 J	450	600	1400	--	2900	1200	78	1,000,000	
Benzo(a)pyrene	65	J	61 J	500	660	1800	--	4000 E	1200	0.8	1,000,000	
Indeno(1,2,3-cd)pyrene	52	J	45 J	530	310 J	740	--	1800	410 J	8	1,000,000	
Dibenzo(a,h)anthracene	--	--	--	220 J	110 J	310 J	--	660	210 J	0.8	1,000,000	
Benzo(g,h,i)perylene	74	J	81 J	580	310 J	870	--	2000	390 J	--	1,000,000	
	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	mg/Kg	ug/Kg	



Site Name: Morris Paints & Varnish  
 ILD Number: 096721063

TABLE 3  
 KEY SAMPLES  
 (Soil)

SAMPLING POINT	X101	X102	X103	X104	X105	X106	X107	X109	TACO	RAL's
Date Sampled :	3/13/02	3/13/02	3/12/02	3/12/02	3/13/02	3/12/02	3/13/02	3/12/02	CLEANUP	
PARAMETER	(Background)								OBJECTIVES	
Pesticide/PCB Compound	Flag									
delta-BHC	--	--	1.1	PJ	--	--	--	--	--	--
Heptachlor	--	--	1.6	PJ	--	--	--	--	1	38,000
Aldrin	1.3	PJ	1.3	PJ	--	4.3	J	--	0.3	10,000
Endosulfan I	--	--	--	--	1.3	J	2.5	P	--	39,000
Dieldrin	26	44	--	--	--	--	--	--	0.4	11,000
Endrin	--	6.6	P	--	30	J	--	180	PJ	230,000
Endosulfan sulfate	--	--	--	--	--	--	--	--	--	--
Endrin ketone	--	0.76	PJ	--	3.9	J	19	P	--	--
Endrin aldehyde	--	--	1.9	PJ	--	--	--	--	--	--
alpha-Chlordane	--	--	--	--	--	--	--	5.5	4	--
gamma-Chlordane	--	--	--	--	1.7	PJ	--	--	2.8	4
Aroclor-1254	190	190	P	--	560	J	--	3900	--	22,000
Aroclor-1260	120	P	120	P	--	--	--	540	P	22,000
	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	mg/Kg	ug/Kg
INORGANICS										
ALUMINUM	5950	6160	4570	7240	4170	6080	4330	3940		310
ANTIMONY	--	--	1.5	B	166	157	28.1	27.2	3.5	B
ARSENIC	5.8	6.0	3.1	9.2	13.7	1.4	B	4.7	4.3	3
BARIUM	113	114	--	3010	345	10100	1160	532	140,000	--
CHROMIUM	12.0	12.1	--	296	1140	663	135	74.7	10,000	400
COBALT	6.5	B	6.8	B	--	162	--	26.7	--	120,000
COPPER	40.3	41.3	--	206	136	--	126	--	82,000	5,000
LEAD	92.9	90.6	--	4420	9070	4370	J	1130	1050	400
MERCURY	0.070	B	--	101	3.5	126	3.0	--	610	1,600
SELENIUM	--	--	--	--	1.9	--	0.85	B	0.77	B
ZINC	414	398	--	4960	1670	1730	1280	1310	610,000	160,000
CYANIDE	--	--	--	22.3	0.60	B	0.33	B	0.12	0.59
pH :	7.7	7.6	6.9	7.8	7.8	7.7	8.5	7.6	--	--
	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg

Cleanup Objectives are based on the Illinois Environmental Protection Agency's Tiered Approach to Corrective Action Objectives. The objectives presented in this table are based on Tier 1 Ingestion/Inhalation for the Soil Exposure Route for an Industrial/Commercial scenario.



Site Name: Morris Paints & Varnish  
ILD Number: 096721063

TABLE 3  
KEY SAMPLES  
(Soil)

[illegible]



Site Name: Morris Paints & Varnish  
 ILD Number: 096721063

TABLE 3  
 KEY SAMPLES  
 (Soil)

SAMPLING POINT	X101	X110	X112	X113	X114	X115	X116	X117	TACO	RAL's	
Date Sampled :	3/13/02	3/13/02	3/12/02	3/13/02	3/13/02	3/12/02	3/13/02	3/13/02	CLEANUP		
PARAMETER	(Background)								OBJECTIVES		
Pesticide/PCB Compound											
delta-BHC	--	--	--	--	--	--	--	--	--	--	
Heptachlor	--	--	--	--	--	0.53	PJ	--	4.7	P	38,000
Aldrin	1.3	PJ	--	30	J	9.9	--	--	--	0.3	10,000
Endosulfan I	--	--	2.0	PJ	1.0	PJ	--	--	--	--	39,000
Dieldrin	26	--	--	290	J	--	--	--	--	0.4	11,000
Endrin	--	--	59	P	--	--	--	--	--	610	230,000
Endosulfan sulfate	--	--	--	4.8	P	--	--	--	--	--	--
Endrin ketone	--	2.3	PJ	23	P	10	P	--	4.0	--	--
Endrin aldehyde	--	--	--	--	--	--	--	--	--	--	--
alpha-Chlordane	--	--	--	1.9	J	--	14	--	--	4	--
gamma-Chlordane	--	0.65	PJ	--	2.5	P	--	16	P	--	--
Aroclor-1254	190	--	1600	--	--	--	--	--	--	--	22,000
Aroclor-1260	120	P	--	410	P	--	--	--	--	--	22,000
	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	mg/Kg	ug/Kg
INORGANICS											
ALUMINUM	5950	4550	4530	4600	4340	4250	7320	3940			310
ANTIMONY	--	75.8	18.4	6.7	B	22.2	21.1	--	81.3	820	--
ARSENIC	5.8	6.5	13.3	42.1	--	6.9	6.9	3.4	4.1	3	200
BARIUM	113	2510	879	326	--	521	1360	--	4090	140,000	--
CHROMIUM	12.0	282	116	48.8	--	51.6	12700	10.9	470	10,000	400
COBALT	6.5	B	30.2	--	29.4	--	29.3	--	44.3	120,000	--
COPPER	40.3	252	--	--	--	--	--	--	--	82,000	5,000
LEAD	92.9	2880	1710	670	--	620	55800	--	2200	400	1,000
MERCURY	0.070	B	4.8	15.3	2.2	4.7	5.9	--	3.2	610	1,600
SELENIUM	--	--	0.81	B	1.1	B	--	--	1.1	10,000	2,300
ZINC	414	2550	1770	--	--	--	1720	--	1660	610,000	160,000
CYANIDE	--	1.2	5.0	0.53	B	0.44	B	2.0	--	0.40	--
pH :	7.7	8.0	8.2	7.9	7.3	8.3	7.9	7.0	--	--	--
	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg

Cleanup Objectives are based on the Illinois Environmental Protection Agency's Tiered Approach to Corrective Action Objectives. The objectives presented in this table are based on Tier 1 Ingestion/Inhalation for the Soil Exposure Route for an Industrial/Commercial scenario.



TABLE 4  
TENTATIVELY IDENTIFIED COMPOUNDS  
(Soil)

SAMPLING POINT	X101	X102	X103	X104	X105	X106	X107	X109				
Date Sampled :	3/13/02	3/13/02	3/12/02	3/12/02	3/13/02	3/12/02	3/13/02	3/12/02				
PARAMETER												
TENTATIVELY IDENTIFIED COMPOUNDS												
Benzene, 1,3,5-trimethyl-	--	--	--	17	NJ	--	800000	NJ	--	--		
Butanol	--	--	--	--	--	--	--	--	--	--		
Benzene, 1,2,4-trimethyl-	--	--	--	--	--	--	300000	NJ	--	--		
Benzene, 2-ethyl-1,4-dimethyl-	--	--	--	--	--	--	127000	NJ	--	--		
Naphthalene, decahydro-2-methyl	--	--	--	--	--	--	88000	NJ	--	--		
1,3-Isobenzofurandione	--	--	--	--	--	--	23000	NJ	--	--		
Phenyl, 4-nonyl-	--	--	--	--	--	--	68000	NJ	--	--		
NONYLPHENOLN ISOMER	--	--	--	--	--	--	44000	NJ	--	--		
1,2-Benzenedicarboxylic acid, b	--	--	--	--	--	--	44000	NJ	--	--		
Benzenamine,2-chloro-4-nitro-	--	--	--	320	NJ	--	--	--	--	--		
(2,2) (9,9) Anthracenophane	--	--	--	180	NJ	--	--	--	--	--		
2-Azafluoranthene	--	--	--	210	NJ	--	--	--	--	--		
Pyrene, 4-methyl-	--	--	--	450	NJ	--	--	--	--	--		
P-Hydroxyphenyl phenylsulfone	--	--	310	NJ	500	NJ	--	--	--	--		
Benz (a) anthracene, 5-methyl-	--	--	--	190	NJ	--	--	--	--	--		
(-)Borno (2,3-c)-2,5-diphenylcyc	--	--	--	470	NJ	--	--	--	--	--		
Oxirane, 2,2'-((1-methylethylid	--	--	--	2000	NJ	--	--	--	--	--		
Benzo (e) pyrene	--	--	660	NJ	700	NJ	1700	NJ	3500	NJ	940	NJ
2-Naphthalenol, 1-((4-nitrophen	--	--	--	210	NJ	--	--	--	--	--	--	
Naphthalene, 1,5-dimethyl-	--	--	110	NJ	--	4300	NJ	--	--	--	--	
Naphthalene, 1,3-dimethyl-	--	--	94	NJ	--	--	--	--	--	--	--	
Naphthalene, 2,6-dimethyl-	--	--	--	--	--	--	--	--	--	--	--	
Naphthalene, 2,7-dimethyl-	--	--	--	--	--	1000	NJ	--	--	--	--	
3-Buten-one, 1-(2,3,6-trimeth	--	--	100	NJ	--	--	--	--	--	--	--	
Azulene, 2,4,6-trimethyl-	--	--	100	NJ	--	--	--	--	--	--	--	
Phenanthrene, 2,3-dimethyl-	--	--	--	--	--	1200	NJ	--	--	--	--	
Phenanthrene, 2,4,5,7-tetrameth	--	--	200	NJ	--	--	--	--	--	--	--	
Pyrene, 1-methyl-	--	--	110	NJ	--	--	--	--	--	--	--	
Pyrene, 2-methyl-	--	--	--	--	--	--	--	--	--	--	--	
Pyrene, 4-methyl-	--	--	--	--	--	--	--	--	--	--	--	
Triphenylene, 2-methyl-	--	--	98	NJ	--	--	--	--	--	--	--	
4,6'-Biazulenyl	--	--	140	NJ	--	--	--	--	--	--	--	
Benzene, (1-methylethyl)-	--	--	--	--	--	--	--	--	--	--	--	
Benzene, 4-ethyl-1,2-dimethyl-	--	--	--	--	--	--	--	--	--	--	--	
Benzene, 1-methyl-2-(methyl-2	--	--	--	--	--	--	--	--	--	--	--	
Benzo (j) fluoranthene	--	--	--	--	--	--	--	--	--	--	--	
Naphthalene, 1-methyl-	--	--	--	--	--	1500	NJ	--	--	210	NJ	
Dibenzofuran, 4-methyl-	--	--	--	--	--	--	--	--	--	210	NJ	
9H-fluoren-9-one	--	--	--	--	--	1100	NJ	--	570	NJ	540	NJ
Anthracene,1-methyl-	--	--	--	--	--	--	--	--	--	1170	NJ	
Anthracene, 2-methyl-	--	--	--	--	--	770	NJ	--	800	NJ	--	--
Anthracene, 9-methyl-	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene, 3-methyl-	--	--	--	--	--	--	--	--	--	240	NJ	
Phenanthrene, 4-methyl-	--	--	--	--	--	1200	NJ	--	--	--	--	--
Cyclopenta(def)phenanthrenone	--	--	--	--	--	--	--	--	--	240	NJ	
(E,E)-2,5-diphenyl-2,4-hexadien	--	--	--	--	--	--	--	--	--	230	NJ	
7H-benz(de)anthracen-7-one	--	--	--	--	--	740	NJ	--	--	200	NJ	
4H-cyclopenta(def)phenanthrene	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(e)acephenanthrylene	--	--	--	--	--	--	--	--	1600	NJ	--	--
8B-,13:8A,14-diepoxy-14,15-bisno	--	--	--	--	--	--	--	--	1280	NJ	--	--
9,10-Anthracenedione	--	--	--	--	--	--	--	--	--	--	--	--
Phenol,4-chloro-2-(phenylmethy	--	--	--	--	--	--	--	--	--	--	--	--
11H-benzo(a)fluorene	--	--	--	--	--	--	--	--	--	--	--	--
11H-benzo(b)fluorene	--	--	--	--	--	--	--	--	--	--	--	--
1,1':2',1''-Terphenyl	--	--	--	--	--	--	--	--	--	--	--	--
1-Pyrene-carboxaldehyde	--	--	--	--	--	--	--	--	--	--	--	--
1a,12b-Dihydrobenzo(c)phenanthr	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene, 10-methyl-	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene, 3-methyl-	--	--	--	--	--	--	--	--	--	--	--	--
1,1,3,3,5-Pentamethyl-2,3-dihyd	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene, 1,4,5-trimethyl-	--	--	--	--	--	780	NJ	--	--	--	--	--
Naphthalene, 1,4,6-trimethyl-	--	--	--	--	--	3200	NJ	--	--	--	--	--
(1,1'-Biphenyl)-4-carboxaldehd	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzofuran, 4-methyl-	--	--	--	--	--	--	--	--	--	--	--	--
Indene, 2-methyl-3-phenyl-	--	--	--	--	--	--	--	--	--	--	--	--
1,1,3,3,5-Pentamethyl-2,3-dihyd	--	--	--	--	--	1600	NJ	--	--	--	--	--
(+)-3,3-Dimethyltricyclo(5_4_0)	--	--	--	--	--	890	NJ	--	--	--	--	--
Perylene	--	--	--	--	--	--	--	--	--	--	--	--
1,2:3,4-Dibenzoanthracene	--	--	--	--	--	--	--	--	--	--	--	--
pH :	7.7	7.6	6.9	7.8	7.8	7.7	8.5	7.6				
	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg				



TABLE 4  
TENTATIVELY IDENTIFIED COMPOUNDS  
(Soil)

SAMPLING POINT	X110	X112	X113	X114	X115	X116	X117
Date Sampled :	3/13/02	3/12/02	3/13/02	3/13/02	3/12/02	3/13/02	3/13/02
PARAMETER							
TENTATIVELY IDENTIFIED COMPOUNDS							
Benzene, 1,3,5-trimethyl-	--	--	--	--	--	--	--
Butanol	--	--	--	--	8	NJ	--
Benzene, 1,2,4-trimethyl-	--	--	--	--	460	NJ	--
Benzene, 2-ethyl-1,4-dimethyl-	--	--	--	--	--	--	--
Naphthalene, decahydro-2-methyl	--	--	--	--	--	--	--
1,3-Isobenzofurandione	--	--	--	--	--	--	--
Phenyl, 4-nonyl-	--	--	--	--	--	--	--
NONYLPHENOLN ISOMER	--	--	--	--	--	--	--
1,2-Benzenedicarboxylic acid, b	--	--	--	--	--	--	--
Benzenamine,2-chloro-4-nitro-	--	--	--	--	--	--	--
(2,2) (9,9) Anthracenophane	--	--	--	--	--	--	--
2-Azafluoranthene	--	--	--	--	--	--	--
Pyrene, 4-methyl-	--	--	--	--	--	--	--
P-Hydroxyphenyl phenylsulfone	120	NJ	2800	NJ	--	--	--
Benz (a) anthracene, 5-methyl-	--	--	--	--	--	--	--
(-)Borno (2,3-c)-2,5-diphenylcyc	--	--	--	--	--	--	--
Oxirane, 2,2'-((1-methylethylid	--	--	--	--	--	--	--
Benzo (e) pyrene	700	NJ	3900	NJ	--	--	--
2-Naphthalenol, 1-((4-nitrophen	--	--	--	--	--	--	--
Naphthalene, 1,5-dimethyl-	--	--	--	--	--	--	260
Naphthalene, 1,3-dimethyl-	--	--	--	--	--	--	190
Naphthalene, 2,6-dimethyl-	--	--	--	--	--	--	--
Naphthalene, 2,7-dimethyl-	--	--	--	--	--	--	--
3-Buten-one, 1-(2,3,6-trimeth	--	--	--	--	--	--	--
Azulene, 2,4,6-trimethyl-	--	--	--	--	--	--	110
Phenanthrene, 2,3-dimethyl-	--	--	--	--	--	--	NJ
Phenanthrene, 2,4,5,7-tetrameth	97	NJ	--	--	--	--	--
Pyrene, 1-methyl-	160	NJ	--	--	--	--	--
Pyrene, 2-methyl-	--	--	1200	NJ	--	--	--
Pyrene, 4-methyl-	--	--	910	NJ	--	--	--
Triphenylene, 2-methyl-	--	--	--	--	--	--	--
4,6'-Biazulenyl	--	--	--	--	--	--	--
Benzene, (1-methylethyl)-	--	--	--	--	870	NJ	--
Benzene, 4-ethyl-1,2-dimethyl-	--	--	--	--	370	NJ	--
Benzene, 1-methyl-2-(methylet)	--	--	--	--	230	NJ	--
Benzo (j) fluoranthene	--	--	--	--	380	NJ	--
Naphthalene, 1-methyl-	--	--	--	--	--	--	170
Dibenzofuran, 4-methyl-	--	--	--	--	--	--	NJ
9H-fluoren-9-one	97	NJ	700	NJ	--	--	--
Anthracene, 1-methyl-	240	NJ	--	--	--	--	--
Anthracene, 2-methyl-	--	--	910	NJ	--	--	--
Anthracene, 9-methyl-	150	NJ	--	--	--	--	160
Phenanthrene, 3-methyl-	--	--	--	--	--	--	NJ
Phenanthrene, 4-methyl-	--	--	--	--	--	--	--
Cyclopenta(def)phenanthrenone	--	--	--	--	--	--	--
(E,E)-2,5-diphenyl-2,4-hexadien	--	--	--	--	--	--	--
7H-benz(de)anthracen-7-one	91	NJ	1500	NJ	--	--	--
4H-cyclopenta(def)phenanthrene	--	--	1600	NJ	--	--	--
Benz(e)acephenanthrylene	--	--	--	--	--	--	--
8B:,13:8A,14-diepoxy-14,15-bisno	--	--	--	--	--	--	--
9,10-Anthracenedione	--	--	660	NJ	--	--	120
Phenol,4-chloro-2-(phenylmethy	--	--	730	NJ	--	--	NJ
11H-benzo(a)fluorene	--	--	1300	NJ	--	--	--
11H-benzo(b)fluorene	--	--	1300	NJ	--	--	--
1,1':2',1''-Terphenyl	--	--	1300	NJ	--	--	--
1-Pyrene-carboxaldehyde	--	--	1500	NJ	--	--	--
1a,12b-Dihydrobenzo(c)phenanthr	--	--	1100	NJ	--	--	--
Benz(a)anthracene. 10-methyl-	--	--	1500	NJ	--	--	--
Chrysene, 3-methyl-	--	--	1000	NJ	--	--	--
1,1,3,3,5-Pentamethyl-2,3-dihyd	--	--	--	--	--	--	190
Naphthalene, 1,4,5-trimethyl-	--	--	--	--	--	--	270
Naphthalene, 1,4,6-trimethyl-	--	--	--	--	--	--	140
(1,1'-Biphenyl)-4-carboxaldehd	--	--	--	--	--	--	250
Dibenzofuran, 4-methyl-	--	--	--	--	--	--	160
Indene, 2-methyl-3-phenyl-	--	--	--	--	--	--	200
1,1,3,3,5-Pentamethyl-2,3-dihyd	--	--	--	--	--	--	--
(+)-3,3-Dimethyltricyclo(5_4_0)	--	--	--	--	--	--	--
Perylene	260	NJ	--	--	--	--	--
1,2:3,4-Dibenzoanthracene	140	NJ	--	--	--	--	--
pH :	8.0	8.2	7.9	7.3	8.3	7.9	7.0
	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg



SITE NAME: MORRIS PAINTS & VARNISH		TABLE 5							
ILD NUMBER 096721063		KEY SAMPLE SUMMARY							
		(Groundwater)							
Sampling Location :	G101	G102	G103	G104	G105	TACO Tier 1		MCL's	
Matrix :	Water	Water	Water	Water	Water	Class 1			
Date Sampled :	3/12/02	3/13/02	3/12/02	3/13/02	3/12/02	Groundwater			
VOLATILES									
SEMIVOLATILES									
Benzaldehyde	1	J	--	--	--	--	--	--	--
Acenaphthene	0.6	J	--	--	--	--	0.42	--	--
Dibenzofuran	0.8	J	--	--	--	--	--	--	--
Fluorene	1	J	--	--	--	--	0.28	--	--
Phenanthrene	4	J	--	--	--	--	--	--	--
Fluoranthene	2	J	--	--	--	--	0.28	--	--
Pyrene	1	J	--	--	--	--	0.21	--	--
bis(2-Ethylhexyl)phthalate	--	--	.6	J	3	BJ	0.6	BJ	0.006
	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L
PESTICIDES									
None detected									
TENTATIVELY IDENTIFIED COMPOUNDS									
Bicyclo(2_2_1)hept-5-ene-2,3-di	--	--	--	--	10	NJ	--	--	--
	ug/L	ug/L	ug/L	ug/L	ug/L		ug/L	ug/L	ug/L
INORGANICS									
ARSENIC	--	--	3.8	B	--	117	0.05	50	
	--	--	--	--	--	114	0.05	50	
BARIUM	73.6	B	78.4	B	173	B	75.5	B	789
	74.9	B	74.3	B	131	B	76.1	B	793
CHROMIUM	1.0	U	1.0	U	3.9	B	--	--	2
	--	--	--	--	--	--	--	--	2000
COBALT	--	--	2.3	B	--	--	0.1	100	
	--	--	--	--	--	--	0.1	100	
COPPER	1.9	B	--	6.4	B	1.4	B	--	1
	1.6	B	--	2.0	B	--	--	--	1
IRON	--	--	--	--	--	38500	0.65	--	--
	--	--	--	--	--	37700	0.65	--	--
LEAD	--	--	5.8	--	--	--	5	1000	
	1.9	--	--	--	--	--	5	1000	
MANGANESE	--	--	390	--	--	1640	0.0075	--	--
	--	--	346	--	--	1600	0.0075	--	--
pH	7.2	6.5	7.5	7.6	7.2	--	0.15	150	
	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L

TACO Objectives are for Groundwater Remediation Objectives for the Groundwater Component of the Groundwater Ingestion Route.

APPENDIX A

**SITE 4-MILE RADIUS MAP**

MORRIS PAINTS and VARNISH



**APPENDIX B**

**SITE 15-MILE SURFACE WATER MAP**

**(NOTE: THERE IS NO SURFACE WATER PATHWAY FOR THIS SITE)**

**MORRIS PAINTS and VARNISH**

APPENDIX C

**TARGET COMPOUND LIST AND DATA QUALIFIERS**

MORRIS PAINTS and VARNISH



## DATA QUALIFIERS

QUALIFIER	DEFINITION ORGANICS	DEFINITION INORGANICS
U	Compound was tested for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture. For soil samples subjected to GPC clean-up procedures, the CRQL is also multiplied by two, to account for the fact that only half of the extract is recovered.	Analyte was analyzed for but not detected.
J	Estimated value. Used when estimating a concentration for tentatively identified compounds (TICS) where a 1:1 response is assumed or when the mass spectral data indicate the presence of a compound that meets the identification criteria and the result is less than the sample quantitation limit but greater than zero. Used in data validation when the quality control data indicate that a value may not be accurate.	Estimated value. Used in data validation when the quality control data indicate that a value may not be accurate.
C	This flag applies to pesticide results where the identification is confirmed by GC/MS.	Method qualifier indicates analysis by the Manual Spectrophotometric method.
B	Analyte was found in the associated blank as well as in the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.	The reported value is less than the CRDL but greater than the instrument detection limit (IDL).
D	Identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor as in the "E" flag, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and <u>all</u> concentration values are flagged with the "D" flag.	Not used.
E	Identifies compounds whose concentrations exceed the calibration range for that specific analysis. All extracts containing compounds exceeding the calibration range must be diluted and analyzed again. If the dilution of the extract causes any compounds identified in the first analysis to be below the calibration range in the second analysis, then the results of both analyses must be reported on separate Forms I. The Form I for the diluted sample must have the "DL" suffix appended to the sample number.	The reported value is estimated because of the presence of interference.
A	This flag indicates that a TIC is a suspected aldol concentration product formed by the reaction of the solvents used to process the sample in the laboratory.	Method qualifier indicates analysis by Flame Atomic Absorption (AA).
M	Not used.	Duplicate injection (a QC parameter not met).

N	Not used	Spiked sample (a QC parameter not met).
S	Not used.	The reported value was determined by the Method of Standard Additions (MSA).
W	Not used.	Post digestion spike for Furnace AA analysis (a QC parameter) is out of control limits of 85% to 115% recovery, while sample absorbance is less than 50% of spike absorbance.
•	Not used.	Duplicate analysis (a QC parameter not within control limits).
+	Not used.	Correlation coefficient for MSA (a QC parameter) is less than 0.995.
P	Not used.	Method qualifier indicates analysis by ICP (Inductively Coupled Plasma) Spectroscopy.
CV	Not used.	Method qualifier indicates analysis by Cold Vapor AA.
AV	Not used.	Method qualifier indicates analysis by Automated Cold Vapor AA.
AS	Not used.	Method qualifier indicates analysis by Semi-Automated Cold Spectrophotometry.
T	Not used.	Method qualifier indicates Titrimetric analysis.
NR	The analyte was not required to be analyzed.	The analyte was not required to be analyzed.
R	Rejected data. The QC parameters indicate that the data is not usable for any purpose.	Rejected data. The QC parameters indicate that the data is not usable for any purpose.



## **TARGET COMPOUND LIST**

### **Volatile Target Compounds**

Chloromethane	1,2-Dichloropropane
Bromomethane	cis-1,3-Dichloropropene
Vinyl Chloride	Trichloroethene
Chloroethane	Dibromochloromethane
Methylene Chloride	1,1,2-Trichloroethane
Acetone	Benzene
Carbon Disulfide	trans-1,3-Dichloropropene
1,1-Dichloroethene	Bromoform
1,1-Dichloroethane	4-Methyl-2-pentanone
1,2-Dichloroethene (total)	2-Hexanone
Chloroform	Tetrachloroethene
1,2-Dichloroethane	1,1,2,2-Tetrachloroethane
2-Butanone	Toluene
1,1,1-Trichloroethane	Chlorobenzene
Carbon Tetrachloride	Ethylbenzene
Vinyl Acetate	Styrene
Bromodichloromethane	Xylenes (total)

### **Base/Neutral Target Compounds**

Hexachloroethane	2,4-Dinitrotoluene
bis(2-Chloroethyl) Ether	Diethylphthalate
Benzyl Alcohol	N-Nitrosodiphenylamine
bis (2-Chloroisopropyl) Ether	Hexachlorobenzene
N-Nitroso-Di-n-Propylamine	Phenanthrene
Nitrobenzene	4-Bromophenyl-phenylether
Hexachlorobutadiene	Anthracene

2-Methylnaphthalene	Di-n-Butylphthalate
1,2,4-Trichlorobenzene	Fluoranthene
Isophorone	Pyrene
Naphthalene	Butylbenzylphthalate
4-Chloroaniline	bis(2-Ethylhexyl)Phthalate
bis(2-chloroethoxy)Methane	Chrysene
Hexachlorocyclopentadiene	Benzo(a)Anthracene
2-Chloronaphthalene	3-3'-Dichlorobenzidene
2-Nitroaniline	Di-n-Octyl Phthalate
Acenaphthylene	Benzo(b)Fluoranthene
3-Nitroaniline	Benzo(k)Fluoranthene
Acenaphthene	Benzo(a)Pyrene
Dibenzofuran	Ideno(1,2,3-cd)Pyrene
Dimethyl Phthalate	Dibenz(a,h)Anthracene
2,6-Dinitrotoluene	Benzo(g,h,i)Perylene
Fluorene	1,2-Dichlorobenzene
4-Nitroaniline	1,3-Dichlorobenzene
4-Chlorophenyl-phenylether	1,4-Dichlorobenzene

#### Acid Target Compounds

Benzoic Acid	2,4,6-Trichlorophenol
Phenol	2,4,5-Trichlorophenol
2-Chlorophenol	4-Chloro-3-methylphenol
2-Nitrophenol	2,4-Dinitrophenol
2-Methylphenol	2-Methyl-4,6-dinitrophenol
2,4-Dimethylphenol	Pentachlorophenol
4-Methylphenol	4-Nitrophenol
2,4-Dichlorophenol	



### Pesticide/PCB Target Compounds

alpha-BHC	Endrin Ketone
beta-BHC	Endosulfan Sulfate
delta-BHC	Methoxychlor
gamma-BHC (Lindane)	alpha-Chlordane
Heptachlor	gamma-Chlordane
Aldrin	Toxaphene
Heptachlor epoxide	Aroclor-1016
Endosulfan I	Aroclor-1221
4,4'-DDE	Aroclor-1232
Dieldrin	Aroclor-1242
Endrin	Aroclor-1248
4,4'-DDD	Aroclor-1254
Endosulfan II	Aroclor-1260
4,4'-DDT	

### Inorganic Target Compounds

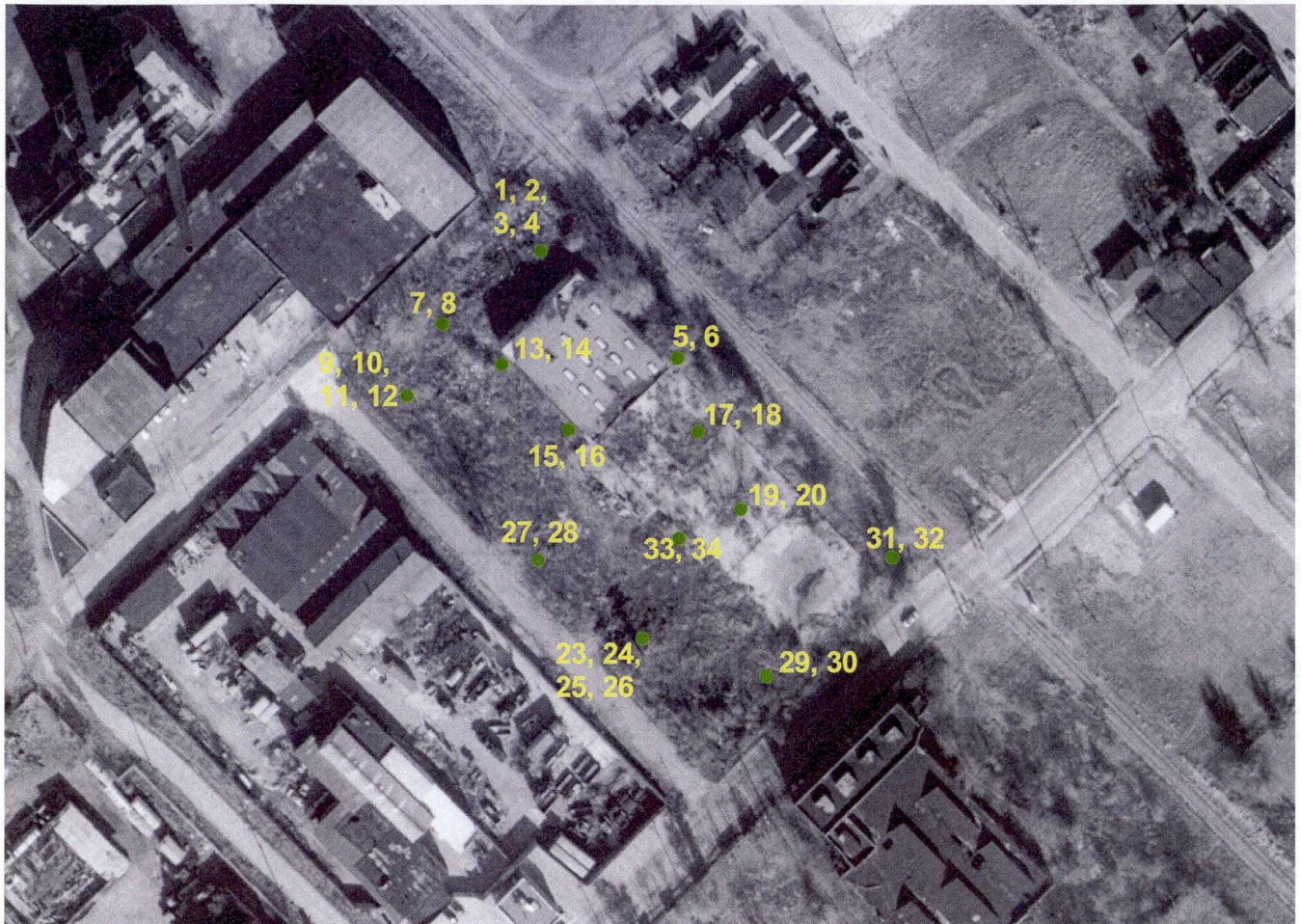
Aluminum	Manganese
Antimony	Mercury
Arsenic	Nickel
Barium	Potassium
Beryllium	Selenium
Cadmium	Silver
Calcium	Sodium
Chromium	Thallium
Cobalt	Vanadium
Copper	Zinc
Iron	Cyanide
Lead	Sulfide
Magnesium	

**APPENDIX D**

**IEPA SITE PHOTOGRAPHS**

**MORRIS PAINTS and VARNISH**





100 0 100 200 Feet

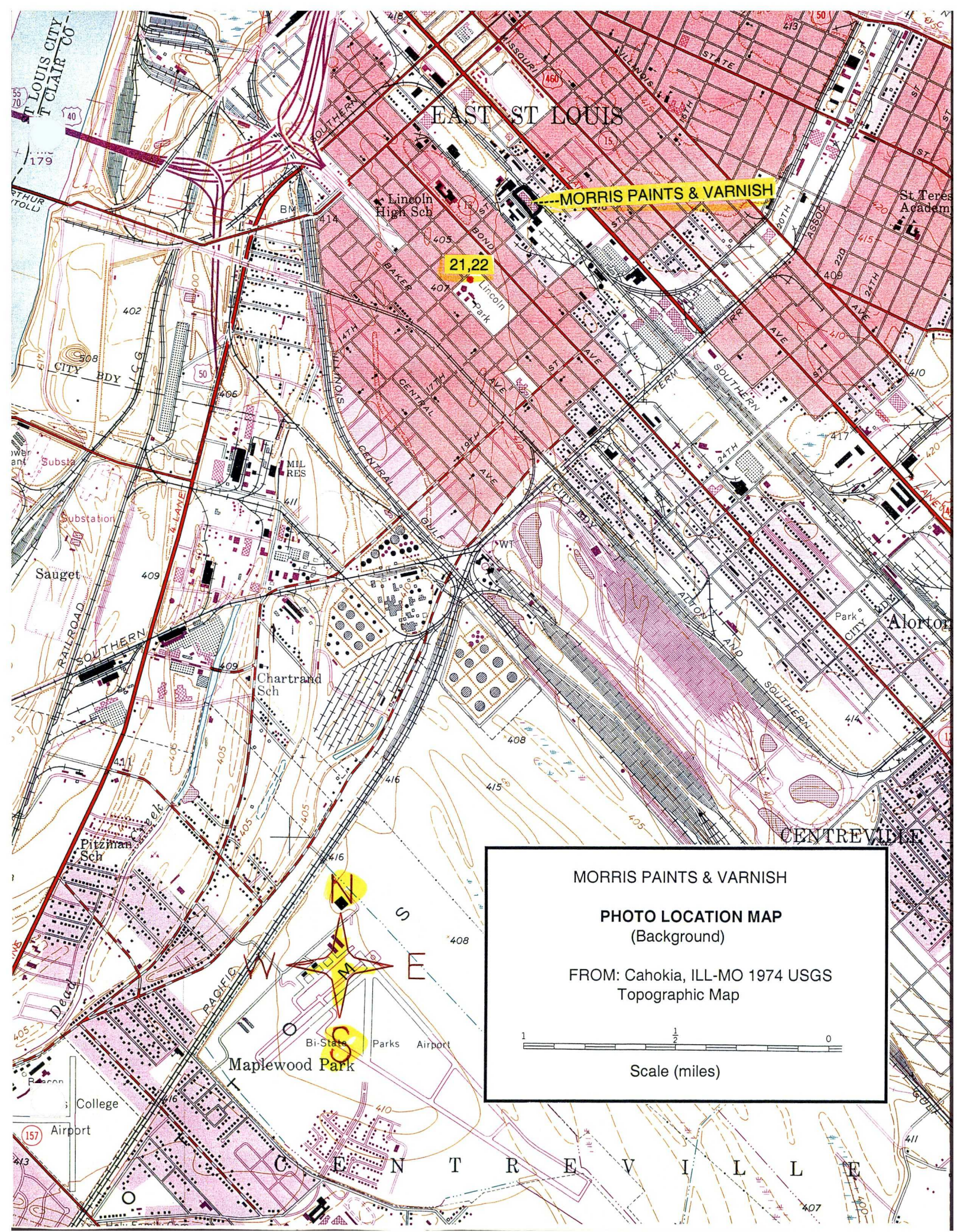
## Morris Paints and Varnish

### Photo Location Map



From: Illinois Department of Transportation Aerial Photograph taken on December 1, 1999.

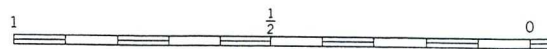




MORRIS PAINTS & VARNISH

**PHOTO LOCATION MAP**  
(Background)

FROM: Cahokia, ILL-MO 1974 USGS  
Topographic Map



Scale (miles)



Combined Assessment Inspection Photos

DATE: 3-12-02	SITE ILD#: 096721063	COUNTY: St. Clair
TIME: 9:55	SITE NAME: Morris Paints & Varnish	

PHOTOGRAPH TAKEN BY: R. Casper
COMMENTS: Picture taken toward: North-northeast
Photo Number 1.
Sample X106 was collected onsite in the northwest area of the property.



DATE: 3-12-02
TIME: 9:55
PHOTOGRAPH TAKEN BY: R. CASPER
COMMENTS: Picture taken toward: North.
Photo Number 2.
Sample X106. The sample was collect- ed with the Geo- Probe at a depth of 7 to 8 feet.





# Combined Assessment Inspection Photos

DATE: 3-12-02	SITE ILID#: 096721063	COUNTY: St. Clair
TIME: 12:15	SITE NAME: Morris Paints & Varnish	

PHOTOGRAPH TAKEN  
BY: R. Casper

COMMENTS: Picture  
taken toward:  
Northeast.

Photo Number 3.

Sample G105 was  
collected onsite  
at the same loca-  
tion as X106. Hit  
water at 22.5 feet



DATE: 3-12-02

TIME: 12:15

PHOTOGRAPH TAKEN  
BY: R. CASPER

COMMENTS: Picture  
taken toward:  
Northeast.

Photo Number 4.

Sample G105. The  
sample was collect-  
ed at a screened  
interval of 22 to  
26 feet.





Combined Assessment Inspection Photos

DATE: 3-12-02	SITE ILID#: 096721063	COUNTY: St. Clair
TIME: 13:20	SITE NAME: Morris Paints & Varnish	

PHOTOGRAPH TAKEN  
BY: R. Casper

COMMENTS: Picture  
taken toward:  
Southeast.

Photo Number 5.

Sample X104 was  
collected onsite  
at the northeast  
area of the  
building.



DATE: 3-12-02

TIME: 13:20

PHOTOGRAPH TAKEN  
BY: R. CASPER

COMMENTS: Picture  
taken toward:  
Southwest.

Photo Number 6.

Sample X104. The  
sample was collect-  
ed with a hand  
auger at a depth  
of 3 to 6 inches.





# Combined Assessment Inspection Photos

DATE: 3-12-02	SITE ILD#: 096721063	COUNTY: St. Clair
TIME: 14:40	SITE NAME: Morris Paints & Varnish	

PHOTOGRAPH TAKEN BY: R. Casper
COMMENTS: Picture taken toward: South.
Photo Number 7.
Sample X103 was collected onsite in the southwest area of the property.



DATE: 3-12-02
TIME: 14:40
PHOTOGRAPH TAKEN BY: R. CASPER
COMMENTS: Picture taken toward: Northeast.
Photo Number 8.
Sample X103. The sample was collected with the Geo-Probe at a depth of 9 feet.





# Combined Assessment Inspection Photos

DATE: 3-12-02	SITE ILD#: 096721063	COUNTY: St. Clair
TIME: 16:30	SITE NAME: Morris Paints & Varnish	

PHOTOGRAPH TAKEN BY: R. Casper
COMMENTS: Picture taken toward: Southwest.
Photo Number 9.
Sample X112 was collected onsite in the southwest area of the property.



DATE: 3-12-02
TIME: 16:30
PHOTOGRAPH TAKEN BY: R. CASPER
COMMENTS: Picture taken toward: Northwest.
Photo Number 10.
Sample X112. The sample was collected with the Geo-Probe at a depth of 2 to 12 inches.





# Combined Assessment Inspection Photos

DATE: 3-12-02	SITE ILD#: 096721063	COUNTY: St. Clair
TIME: 16:45	SITE NAME: Morris Paints & Varnish	

PHOTOGRAPH TAKEN  
BY: R. Casper

COMMENTS: Picture  
taken toward:  
West.

Photo Number 11

Sample G103 was  
collected onsite  
in the southeast  
area of the  
property.



DATE: 3-12-02

TIME: 16:45

PHOTOGRAPH TAKEN  
BY: R. CASPER

COMMENTS: Picture  
taken toward:  
North.

Photo Number 12.

Sample G103. The  
sample was collect-  
ed at the same  
location as X112,  
screened from 22  
to 26 feet.





# Combined Assessment Inspection Photos

DATE: 3-12-02	SITE ILD#: 096721063	COUNTY: St. Clair
TIME: 17:00	SITE NAME: Morris Paints & Varnish	

PHOTOGRAPH TAKEN BY: R. Casper
COMMENTS: Picture taken toward: Northeast.
Photo Number 13.
Sample X109 was collected onsite near the southwest corner of the building.



DATE: 3-12-02
TIME: 17:00
PHOTOGRAPH TAKEN BY: R. CASPER
COMMENTS: Picture taken toward: Southeast.
Photo Number 14.
Sample X109. The sample was collected with a hand auger at a depth of 2 to 12 inches.





# Combined Assessment Inspection Photos

DATE: 3-12-02	SITE ILID#: 096721063	COUNTY: St. Clair
TIME: 17:30	SITE NAME: Morris Paints & Varnish	

PHOTOGRAPH TAKEN  
BY: R. Casper

COMMENTS: Picture  
taken toward:  
Northeast.

Photo Number 15.

Sample X115 was  
collected onsite  
at near the south-  
east corner of the  
building.



DATE: 3-12-02

TIME: 17:30

PHOTOGRAPH TAKEN  
BY: R. CASPER

COMMENTS: Picture  
taken toward:  
Northwest.

Photo Number 16.

Sample X115. The  
sample was collect-  
ed with a hand  
auger at a depth  
of 3 to 7 inches.





# Combined Assessment Inspection Photos

DATE: 3-13-02	SITE ILD#: 096721063	COUNTY: St. Clair
TIME: 9:00	SITE NAME: Morris Paints & Varnish	

PHOTOGRAPH TAKEN  
BY: R. Casper

COMMENTS: Picture  
taken toward:  
Northeast.

Photo Number 17.

Sample X117 was  
collected onsite  
at a broken spot  
on the concrete  
platform.



DATE: 3-13-02

TIME: 9:00

PHOTOGRAPH TAKEN  
BY: R. CASPER

COMMENTS: Picture  
taken toward:  
Northwest.

Photo Number 18.

Sample X117. The  
sample was collect-  
ed with a hand  
auger at a depth  
of 1 to 12 inches.





Combined Assessment Inspection Photos

DATE: 3-13-02	SITE ILID#: 096721063	COUNTY: St. Clair
TIME: 10:20	SITE NAME: Morris Paints & Varnish	

PHOTOGRAPH TAKEN  
BY: R. Casper

COMMENTS: Picture  
taken toward:  
Northwest.

Photo Number 19.

Sample X107 was  
collected onsite  
at a break in the  
concrete platform.



DATE: 3-13-02

TIME: 10:20

PHOTOGRAPH TAKEN  
BY: R. CASPER

COMMENTS: Picture  
taken toward:  
Southeast.

Photo Number 20.

Sample X107. The  
sample was collect-  
ed with a hand  
auger at a depth  
of 1 to 3 feet.





# Combined Assessment Inspection Photos

DATE: 3-13-02	SITE ILD#: 096721063	COUNTY: St. Clair
TIME: 11:00	SITE NAME: Morris Paints & Varnish	

PHOTOGRAPH TAKEN BY: R. Casper
COMMENTS: Picture taken toward: Northeast.
Photo Number 21.
Samples X101/X102.
Sample and
duplicate sample
collected at a
depth of 1 to 2".



DATE: 3-13-02
TIME: 11:00
PHOTOGRAPH TAKEN BY: R. CASPER
COMMENTS: Picture taken toward: Southwest.
Photo Number 22.
Sample X101/X102.
Sample was collect-
ed at Lincoln Park
located approxi-
mately ¼ mile
south of site.





Combined Assessment Inspection Photos

DATE: 3-13-02	SITE ILID#: 096721063	COUNTY: St. Clair
TIME: 10:00	SITE NAME: Morris Paints & Varnish	

PHOTOGRAPH TAKEN BY: R. Casper
COMMENTS: Picture taken toward: Southeast.
Photo Number 23.
Samples G101/G102
were collected at
at the same
location as sample
X116.



DATE: 3-13-02
TIME: 11:00
PHOTOGRAPH TAKEN BY: R. CASPER
COMMENTS: Picture taken toward: Northwest.
Photo Number 24.
Samples G101/G102.
sample was collect-
ed at screened
interval of 22 to
26 feet; water hit
: 22 feet.





# Combined Assessment Inspection Photos

DATE: 3-13-02	SITE ILD#: 096721063	COUNTY: St. Clair
TIME: 12:00	SITE NAME: Morris Paints & Varnish	

PHOTOGRAPH TAKEN  
BY: R. Casper

COMMENTS: Picture  
taken toward:  
Northeast.

Photo Number 25.

Sample X116 was  
collected onsite  
in the southeast  
area of the  
property.



DATE: 3-13-02

TIME: 12:00

PHOTOGRAPH TAKEN  
BY: R. CASPER

COMMENTS: Picture  
taken toward:  
Southwest.

Photo Number 26.

Sample X116. The  
sample was collect-  
ed with the Geo-  
Probe at a depth  
of 3 to 50 feet.





# Combined Assessment Inspection Photos

DATE: 3-13-02	SITE ILD#: 096721063	COUNTY: St. Clair
TIME: 13:30	SITE NAME: Morris Paints & Varnish	
PHOTOGRAPH TAKEN BY: R. Casper		
COMMENTS: Picture taken toward: Northwest.		
Photo Number 27.		
Sample X113 was collected onsite in the south area of the property.		



DATE: 3-13-02
TIME: 13:30
PHOTOGRAPH TAKEN BY: R. CASPER
COMMENTS: Picture taken toward: West.
Photo Number 28.
Sample X113. The sample was collected with a hand auger at a depth of 1 to 12 inches.





# Combined Assessment Inspection Photos

DATE: 3-13-02	SITE ILID#: 096721063	COUNTY: St. Clair
TIME: 14:45	SITE NAME: Morris Paints & Varnish	

PHOTOGRAPH TAKEN BY: R. Casper
COMMENTS: Picture taken toward: Northwest.
Photo Number 29.
Sample X114 was collected onsite in the eastern area
Note: photoboard has wrong sample No.



DATE: 3-13-02
TIME: 14:45
PHOTOGRAPH TAKEN BY: R. CASPER
COMMENTS: Picture taken toward: Southwest.
Photo Number 30.
Sample X114. The sample was collected at a depth of 7 to 8 feet. Note: Photoboard has incorrect sample No.





# Combined Assessment Inspection Photos

DATE: 3-13-02	SITE ILD#: 096721063	COUNTY: St. Clair
TIME: 15:15	SITE NAME: Morris Paints & Varnish	
PHOTOGRAPH TAKEN BY: R. Casper		
COMMENTS: Picture taken toward: Northwest.		
Photo Number 31.		
Sample G104 was collected offsite at the northeast corner of the property.		



DATE: 3-13-02
TIME: 16:00
PHOTOGRAPH TAKEN BY: R. CASPER
COMMENTS: Picture taken toward: Northwest.
Photo Number 32.
Sample X105 was collected at the same location as G104.





# Combined Assessment Inspection Photos

DATE: 3-13-02	SITE ILD#: 096721063	COUNTY: St. Clair
TIME: 17:00	SITE NAME: Morris Paints & Varnish	

PHOTOGRAPH TAKEN BY: R. Casper
COMMENTS: Picture taken toward: Northeast.
Photo Number 33.
Sample X110 was
collected onsite
by the south end
of the concrete
platform.



DATE: 3-13-02
TIME: 17:00
PHOTOGRAPH TAKEN BY: R. CASPER
COMMENTS: Picture taken toward: Northwest.
Photo Number 34.
Sample X110. The
sample was collect-
ed with a hand
auger at a depth
of 1 to 24 inches.





**APPENDIX E**

**ANALYTICAL RESULTS (Volume 2)**

**MORRIS PAINTS and VARNISH**



L1630450051 – St. Clair  
Morris Paints & Varnish  
ILD 096721063  
SF/HRS

#### Site Priority Recommendation

The author of this report recommends that the Morris Paints & Varnish site (ILD 096721063) be assigned a Medium Priority status. This recommendation is based on findings of a CERCLA Combined Assessment (CA) inspection conducted on March 12 and 13, 2002 and takes into account factors such as the sites' apparent threat to the various migration pathways of concern and environmental targets.

Groundwater is not used in the area for drinking. The nearest well is an industrial process well located approximately one and a half mile north of the site. There are no known public or private wells within a four-mile radius of the site that uses groundwater for drinking. Groundwater samples collected during the inspection contained elevated levels of inorganic substances.

Soil samples collected during the 2002 CERCLA inspection indicate there are areas that contain volatile, semivolatile, pesticides, tentatively identified compounds and inorganic substances that are above health based benchmarks. The property presently has two workers onsite that are involved in auto salvaging. One of the workers lives in a house trailer onsite. Private residences are located approximately 150 feet northeast of the property and the nearest school is located approximately one-half mile west. The area is a mixture of active and inactive industrial/commercial buildings and private and public housing. The property is located in a densely populated area.

No surface water samples were collected during the CERCLA inspection. There is no surface water pathway from the site as the property is flat and precipitation would tend to either soak into the ground or collect in a ditch on the northeast side of the property. The ditch does not lead into a waterway.

Air was monitored with a Toxic Vapor Analyzer but no release to the breathing zone was noted. The property is surrounded by a chain link fence and locked gate but access could be gained by trespassers crawling under the fence or through holes and being exposed to surficial contamination or wind blown contaminants.